CSI.1 General Information

110 15	lu. 1 B 11 B 12 B
EPA Manufacturer Code	Harley-Davidson Motor Company
Enter the Manufacturer Code	
assigned by CARB, if any (Uppercase Letters Only):	
Parent Company Name, if applicable	
Enter the date that the EPA certification fee was paid	
Model Year	
Select the Vehicle Category for This Engine Family	Class III Highway Motorcycle With Displacement of 280cc and Over
Select the applicable application type Enter the engine family that previously certified:	
Enter the 12-character engine family for this application	
Enter the Permeation Family Name	1
Does this Perm Family participate in Average Banking and Trading?	
Does this EF participate in an EPA and/or CARB emission averaging program?	Yes
If yes, does EF participate in an EPA and/or CARB emission averaging program?	Both
CARB corporate averaging plan engine family?	Yes
Sales Areas of All Vehicles/Engines in This Engine Family	Some 49, Some California
Are You a Small Volume Manufacturer Designated by EPA or CARB?	Regular Volume
(EPA-Only) Are you Certifying This Vehicle/Engine By Design	
Indicate the testing procedure applied for exhaust emissions values	40CFR86, Subpart E: Chassis test
If Other, Please provide EPA/CARB approval ID for this testing procedure	
Are you the original manufacturer of the certifying vehicle/engine?	Yes
	riginal Equipment Manufacturer #1
Enter the full legal name of the vehicle original equipment manufacturer	
Enter the country where the vehicles were assembled	
Enter the full legal name of the engine original equipment manufacturer	
Enter the country where the engines were assembled	
Enter any comments that you want EPA/CARB to know regarding the above information	

CSI.2A EPA Exhaust Emission Standards and Certification Levels

Exhaust Emissions Unit	g/km
HC	
Certification Level	
Emission Standard	
NO _x	
Certification Level	
HC+NO _x	
Certification Level	0.4
Emission Standard	
Family Emission Limit	0.7
СО	
Certification Level	2.3
Emission Standard	12.0
Family Emission Limit	
Applicant Notes	HC + NOX = 0.436

CSI.2B CARB Emission Standards and Certification Levels

CARB HMC Early Compliance Multiplier CARB Exhaust Emissions Exhaust Emissions Unit HC Certification Level 0.3 Emission Standard Family Emission Limit NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Exhaust Emissions Unit HC Certification Level 0.3 Emission Standard Family Emission Limit NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
HC Certification Level Emission Standard Family Emission Limit NO _x Certification Level HC+NO _x Certification Level Emission Standard Family Emission Limit 0.7 CO Certification Level Emission Standard Too Co Certification Level Emission Standard Emission Standard Too Certification Level Emission Useful Life (years) Emission Useful Life (km) Too Certification Level Emission Useful Life (km) Too Certification Level Emission Useful Life (years) Too Certification Level Emission Useful Life (km)	
Certification Level Emission Standard Family Emission Limit NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Emission Standard Family Emission Limit NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Family Emission Limit NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
NO _x Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Certification Level 0.1 HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
HC+NO _x Certification Level 0.4 Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Certification Level Emission Standard 0.8 Family Emission Limit 0.7 CO Certification Level Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Emission Standard Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Family Emission Limit 0.7 CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
CO Certification Level 2.3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Certification Level 2,3 Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Emission Standard 12 Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Emission Useful Life (years) 5 Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Emission Useful Life (km) 30000 Vehicle Evaporative Emissions (HMC Only)	
Vehicle Evaporative Emissions (HMC Only)	
Diurnal + Hot Soak (Unit: g/test)	
Evaporative Family 1	
Evaporative Family Name HHDXU0025ACA	
Certification Level 0,5	
Emission Standard 2.0	
Emission Useful Life (years) 5	
Emission Useful Life (km) 30000	
Applicant Notes Diurnal and Hot Soak Cert level is 0.495. HC + NOX = 0.44	

CSI.3 Engine Family Description

Engine Family Useful Life	EPA Required Useful Life
Years	
Hours	
Kilometers	
Does this engine family have multiple operating fuels?	
operating radio	Fuel Type 1
Primary Operating Fuel Type	Gasoline
Fuel Type, If Other	
Combustion Cycle	4-Stroke
Other	
Cylinder Arrangement	Vee
Other	
Number of Cylinders	2
Valves per Cylinder	4
Engine Type	Reciprocating (Otto Cycle)
Other	
Engine Cooling Media	Air Cooled
Other	
Does this engine family contain multiple displacements?	Yes
Displacement Values	1868.0, 1746.0
New Technology	Yes
If yes, explain	4 Valves per cylinder. 2016 & prior was 2.
Applicant Notes	

CSI.4 Exhaust Emission Control Information

Exhaust ECS 1	
Is this engine family equipped with a catalytic converter?	
Enter the total number of catalytic converters (1 - 9)	
Select the applicable catalytic converter configuration	
Select the catalytic converter type used	Three Way Catalyst (TWC), single-bed, closed-loop warm up
Does the engine family use an Exhaust Gas Recirculation (EGR) technology as part of the Emission Control System?	No
Enter a description of the EGR technology used	
Select the applicable engine fuel system type	
If Other, Enter a description of the fuel system	
Enter the number of carburetors	
Enter the number of barrels per carburetor	

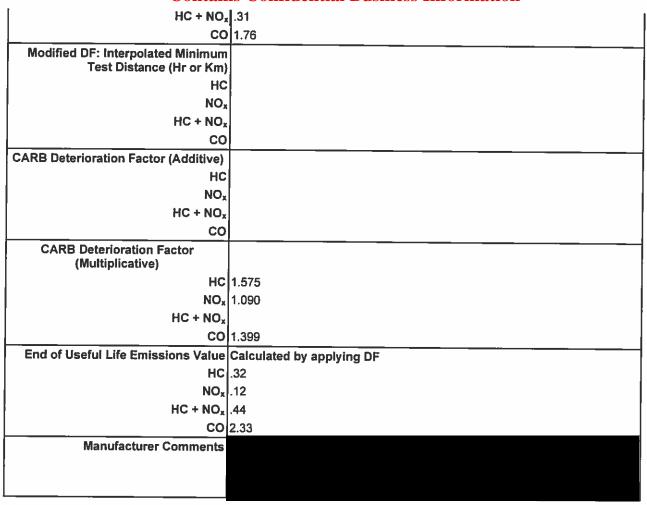
Select the method of air aspiration for the engine	
If Other, Enter a description of the method of engine aspiration	
Select the Charge Air Cooler Type	No Air Cooler
Select the type of electronic engine control module	
Select the applicable method of air injection methodology	Not Applicable
If Other, enter the applicable method of air injection methodology	
Are there any air/fuel feedback sensor used on this engine family?	Yes
Sensor Type	Heated Oxygen Sensor
Sensor Type, if Other	
Specify the number of feedback sensor(s) used	2
Select the configuration of the feedback sensors arrangement	Parallei
Applicant Notes	

CSI.5 Exhaust Emission Data Vehicle/Engine (EDV/E) and Emissions Test Data

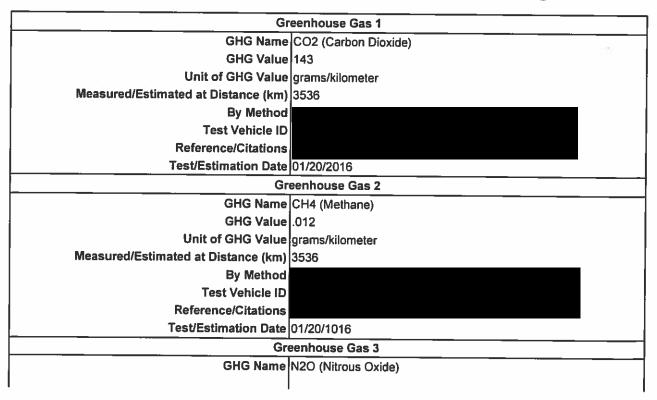
	Test Vehicle #1
EDV ID	
EDV Type	
Original EF Name That Contains EDV Data	
DDV Engine Family if Different from EDV Engine Family	
Configuration ID	
Model Name	
Tire Pressure (in PSI)	40
Road Load Force (N)	173
Rated Power	
Rated Power Unit	kW
RPM at Rated Power	5020
Cylinder (Block) Arrangement	Vee
Number of Cylinders	2
ECS Number (From Tab 4)	ECS 1
Displacement (cc)	1868
Transmission	Manual
Number of Gears	6
N/V Ratio	24
Curb Mass (in kg)	415
Equivalent Inertia Mass (in kg)	520
Exhaust Test #1	
Date	
Test Identification Number	
Test By	Manufacturer Conducted Test
Test For	Certification Emission Test

Test Fue	Indolene
Test Measurement Uni	Kilometers
Tested at Cumulative Km or H	3536
Raw Exhaust Emission Test Results	
Test Unit	t g/km
нс	.11
NO,	.04
HC + NO,	.16
co	1.08
CO ₂	143
	Exhaust Test #2
Date	
Test Identification Number	
	Manufacturer Conducted Test
	Certification Emission Test
	Indolene
Test Measurement Unit	
Tested at Cumulative Km or Hr	8092
Raw Exhaust Emission Test Results	
Test Unit	g/km
нс	.15
NO _x	.07
HC + NO _x	.22
co	1.53
CO ₂	
Exhaust Test #3	
Date	
Test Identification Number	
	Manufacturer Conducted Test
	Certification Emission Test
Test Fuel	
Test Measurement Unit	
Tested at Cumulative Km or Hr	8121
Raw Exhaust Emission Test Results	
Test Unit	·
нс	
NO _x	
HC + NO _x	
	1.58
CO₂	
Exhaust Test #4	
Date	
Test Identification Number	
	Manufacturer Conducted Test
	Certification Emission Test
Test Fuel	
Test Measurement Unit	
Tested at Cumulative Km or Hr	15033
Raw Exhaust Emission Test Results	

T	January.
Test Unit	.20
1	.11
HC + NO,	
	1.67
CO2	142
	For EPA Certification (50 States and 49 State)
Certification Level Unit (Specified on CSI.2a)	G/KM
нс	
NO _x	
HC + NO _x	0.4
i e	2.3
End of Useful Life Emissions Value	Calculated by applying DF
нс	.32
NO _x	
HC + NO _x	
	2.3
EPA Deterioration Factor	
1	Multiplicative
1	1.575
	1.090
HC + NO _x	
1	1.399
	<u> </u>
For CARB Certification (50 State or CA only)	
Certification Level Unit (Specified on	
CSI.2b)	
нс	l .
NO _x	0.1
HC + NO _x	0.4
СО	2.3
Enter the Test Number Associated to the Official Certification Level	Test #4
HC	20
NO _x	
HC + NO _x	
l .	1.67
CO ₂	
Extrapolated or End of Useful-Life Data (Hr or Km) Interval	
нс	l
NO _x	
HC + NO _x	
	2.46
Interpolated Total Test Interval (Hr or	15000
Km)	
HC	
NO _x	.11



CSI.5A Federal Mandatory Greenhouse Gas (GHG) Reporting



GHG Value	1.003
Unit of GHG Value	grams/kilometer
Measured/Estimated at Distance (km)	3536
By Method	
Test Vehicle ID	
Reference/Citations	
Test/Estimation Date	01/20/2016
Applicant notes for GHG data:	

CSI.6A Permeation Emissions Control / Test Data

(Optional Until Model Year 2008)

First Tents 4		
Permeation Family Name	Fuel Tank 1 Permeation Family Name HHDXPMETAL03	
Certification Level (g/m²/day)		
Emission Standard (g/m²/day)		
· · · · · · · · · · · · · · · · · · ·	1.3	
Family Emission Limit (g/m²/day)		
Permeation Emissions Certification Method		
Fuel Tank Manufacturer	Harley-Davidson	
	Certify by Design	
Select the applicable permeation emission certify-by-design technology category. Other		
	Certify by Emission Testing	
Use Carry-over Test Data? Yes		
If carryover, from permeation family		
Carryover DF		
If carryover, from permeation family	GHDXPMETAL03	
Tank Material	Metal	
Tank Material if Other		
Control Strategy		
Least Thickness (mm)		
Least Barrier Weight (%) Note: If Tank Material is not "Metal", one of the three "Least Barrier" fields is required.		
Least Barrier Mol (%)		
Least Barrier Thickness (mm)		
Production Method	Other Production Method	
Production Method if Other	Metal	
Test Data (g/m²/day)	.30	
DF (g/m²/day)	.04	
Certify by Certified Tank		
EPA Certificate Number		
Fuel Line 1		
Certification Level (g/m²/day)	2.9	
Emission Standard (g/m²/day)	15	
	E = Emission tests	

Permeation Emissions Certification Method		
Fuel Line Manufacturer	Nobel Automotive	
	Certify by Design	
Select the applicable permeation		
emission certify-by-design		
technology category. Other	N=	
Other	Certify by Emission Testing	
Use Carry-over Test Data?		
If carryover, from permeation family		
Carryover DF	Yes	
If carryover, from permeation family	GHDXPMETAL03	
Fuel Line Material	Plastic	
Fuel Line Material if Other		
Least Thickness (mm)	1	
Test Results (g/m²/day)	2.9	
DF (g/m²/day)		
	Certify by Certified Fuel Line	
EPA Certificate Number		
	Fuel Line 2	
Certification Level (g/m²/day)	.3	
Emission Standard (g/m²/day)	15	
Permeation Emissions Certification	E = Emission tests	
Method		
Fuel Line Manufacturer		
Select the applicable permeation	Certify by Design	
emission certify-by-design		
technology category.		
Other		
Certify by Emission Testing		
Use Carry-over Test Data?		
If carryover, from permeation family		
Carryover DF		
If carryover, from permeation family		
Fuel Line Material	Plastic	
Fuel Line Material if Other		
Least Thickness (mm)		
Test Results (g/m²/day)	.31	
DF (g/m²/day)		
FDA G-4/2	Certify by Certified Fuel Line	
EPA Certificate Number		
Comments		

CSI.6B Evaporative Family Description

Evaporative Family#1		
Evaporative Family HHDXU0025ACA		
Evaporative Family Group		

Vapor Storage Device (canister)	lYes		
Number of Canisters	\		
Canister Configuration	Single		
Canister(s) Total Working Capacity (g)	25		
Canister(s) Total Medium Volume (cc)			
Canister Storage Medium	Carbon		
Canister Housing Material	Plastic		
Canister Vent System Configuration	Closed Bottom		
Vapor Storage Device (crankcase)	No		
Vapor Storage Device (intake manifold element)			
Vapor Storage Device (charcoal air	No		
cleaner)			
Purge System Configuration	Purged Control		
Individ	ual Fuel Tanks in this Evaporative Family		
	Tank Material / Volume		
	Fuel Tank #1		
Steel or Plastic			
50% Fill Volume (liters)	50% Fill Volume (liters) 11.4		
	Tank Material / Volume Fuel Tank #2		
Steel or Plastic	J - 10-10-10-10-10-10-10-10-10-10-10-10-10-1		
50% Fill Volume (liters)	00		
Tank Material / Volume Fuel Tank #3			
Steel or Plastic Steel			
50% Fill Volume (liters)	8.9		
Tank Material / Volume Fuel Tank #4			
Steel or Plastic Steel			
50% Fill Volume (liters)	9.5		
Fuel Tank Material(s) Description	steel		
Fuel Hose Material(s) Description	Teflon		
Comments	11.4 = HHDXC1.75AED, 1.87AEF, 1.75AEE, 1.75AXG 6.6 = HHDXC0.50AXG, 0.75AXG 8.9 = HHDXC1.80AEB; FXDL, FXDLS, FXDWG 8.9 = HHDXC1.80AEB; FXDF		

CSI.6C Evaporative Emission Data Vehicle (EDV) and Emission Test Data

Evaporative EDV Set #1	
Evaporative Family	HHDXU0025ACA
EDV Evaporative Type	New
EDV Carryover or Carry Across Evaporative Family	
Evaporative Family Group	
Evaporative Test Vehicle ID	40890X
Evaporative Test Vehicle Model	FLHTKSE
Engine Displacement (cc)	1868
50%-Fill Fuel Tank(s) Capacity (liters)	11.4
100%-Fill Fuel Tank(s) Capacity (liters)	22.7

Contains	Confidential Dusiness Information	
Evaporative Emission Test #1		
General Evaporative Emission Test Information		
Test Date		
Test ID Number		
Test By	Manufacturer	
Test Fuel		
Test For	Certification Emission Test	
Test Cycle	SHED	
Raw Evaporative Testing Result (g/test)		
Diurnal	.07	
Hot Soak	.05	
Diurnal + Hot Soak	.12	
	Evaporative Emission Test #2	
General Evaporative Emission Test Information		
Test Date		
Test ID Number		
Test By	Manufacturer	
Test Fuel		
Test For	Certification Emission Test	
Test Cycle	SHED	
Raw Evaporative Testing Result (g/test)		
Diurnal	.11	
Hot Soak	.03	
Diurnal + Hot Soak	.14	
	Evaporative Emission Test #3	
General Evaporative Emission Test Information		
Test Date		
Test ID Number		
Test By	Manufacturer	
Test Fuel	Indolene	
	Certification Emission Test	
Test Cycle	SHED	
Raw Evaporative Testing Result (g/test)		
Diurnal	.10	
Hot Soak	.06	
Diurnal + Hot Soak	.16	
Evaporative Emission Test #4		
General Evaporative Emission Test Information		
Test Date		
Test ID Number		
Test By	Manufacturer	
Test Fuel		
	Certification Emission Test	
Test Cycle	SHED	

Raw Evaporative Testing Result (g/test)	
Diurnal	.12
Hot Soak	.08
Diurnal + Hot Soak	.20
Enter the Evaporative Test Number as the Official Raw Evaporative Emission Certification Level (without DF)	
Diurnal	.12
Hot Soak	.08
Diurnal + Hot Soak	.20
Overall Evaporative Emission Deterioration Factor	.30
Overall Evaporative Emission Certification Level (with DF)	.50
Manufacturer Comments	

CSI.6D Evaporative Durability Data Vehicle (DDV) and Durability Test Data

Evaporative DDV Set #1		
Evaporative Family	HHDXU0025ACA	
DDV Evaporative Type	New	
DDV Carryover or Carry Across Evaporative Family		
Evaporative Family Group		
DF Test Vehicle ID	40890X	
Evaporative Test Vehicle Model	FLHTKSE	
Engine Displacement (cc)	1868	
50%-Fill Fuel Tank(s) Capacity (liters)	11.4	
100%-Fill Fuel Tank(s) Capacity (liters)	22.7	
Evaporative DDV Comments	same as EDV	
Using assigned CARB Bench DF	Yes	
DF Test Vehicle ID		
	Evaporative Bench DF Test #	
Test Date		
Test ID Number		
Test Fuel		
Test Point		
THC Raw Evaporative Emission Value (g/test)		
Bench Interpolated Value (typically at ¹ / ₂ useful-life mileage test point)		
Bench Interpolated Value for Total		
Hydrocarbons (typically at ¹ / ₂ useful- life mileage test point)		
Bench Extrapolated Value (typically at useful-life mileage test point)		
Bench Extrapolated Value for Total Hydrocarbons (typically at useful-life mileage test point)		
	.5	

Contains	Comfucitial Dusiness Information		
Bench Evaporative Deterioration Factor for Total Hydrocarbons			
DF Test Vehicle ID			
	Evaporative Vehicle DF Test #1		
Test Date			
Test ID Number			
Test Fuel	Indolene		
Test Point	3536		
THC Raw Evaporative Emission Value (g/test)			
	Evaporative Vehicle DF Test #2		
Test Date			
Test ID Number			
Test Fuel	Indolene		
Test Point	8092		
THC Raw Evaporative Emission Value (g/test)			
(3.1321)	Evaporative Vehicle DF Test #3		
Test Date			
Test ID Number			
Test Fuel	Indolene		
Test Point	8121		
THC Raw Evaporative Emission Value	.16		
(g/test)			
- 1	Evaporative Vehicle DF Test #4		
Test Date			
Test ID Number			
Test Fuel			
Test Point			
THC Raw Evaporative Emission Value (g/test)			
Vehicle Interpolated Value (typically			
at ¹ / ₂ useful-life mileage test point)			
Vehicle Interpolated Value for Total			
Hydrocarbons (typically at 1/2 useful-			
life mileage test point)			
Vehicle Extrapolated Value (typically at useful-life mileage test point)	30000		
Vehicle Extrapolated Value for Total	.29		
Hydrocarbons (typically at useful-life mileage test point)	,		
Vehicle Evaporative Deterioration	40		
Factor for Total Hydrocarbons			
Overall Evaporative Vehicle DF [(bench + vehicle)/2]	.30		
Outlier Information			
Manufacturer Comments - Bench			
Manufacturer Comments - Vehicle			
Tolliolo			

CSI.7 Models Covered

Model #1	
_	

	to a part of the same of the s
Final Assembly Manufacturer Name	
Manufacturer Model Name	1
Commercial / Advertised Model Name	
Engine Code	
	Class III Highway Motorcycle With Displacement of 280cc and Over
Evaporative Family (CARB)	
Number of Evaporative Canisters (CARB)	
Bore (mm)	
Displacement (cc)	
Stroke (mm)	
Basic Ignition Timing (degrees,	
BTDC)	
Rated Power (kW)	
RPM @ Rated Power	1
Rated Torque (nt-m)	165
RPM @ Rated Torque	
N/V Ratio	24
Curb Mass (kg)	429
Equivalent Inertial Mass (kg)	
Transmission (e.g. M5, A3, etc.)	M6
Vehicle Emission Compliance	California and 49-state labels
Information (VECI) Label Type	
Fuel System	Single Fuel System
Operating Fuel	
Emission Control System (model /	
rating specific)	
Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)	
Projected Sales (CBI) - US (49-States)	
Permeation Family Name	NI DVDAGTAL AA
	HHDXPMETAL03
0450	Only ATM Considerable (Onto a ATM)
50" or Less in Width?	Only ATV Specification (Category ATV.A)
4 or More Low Pressure Tires?	
Seat Straddled by Operator?	
Without Passenger Seating?	
Without Passenger Seating? Handlebar?	
Manufacturer Previously Exempted?	
Internal Combustion Engine?	
4 or more wheels?	
Bench or bucket seating for 2 or more	
persons?	
Steering Wheel?	
Rear Payload Capacity >= 350lbs., or	
seating for 6 or more passengers?	<u> </u>
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	

Contain	is Confidential Dusiness Information	
Max power <= 30 kW		
Can Travel >= 25 mph?		
4 wheels?		
Bench or bucket seating for 1 or more persons?		
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?		
Designed for operation over rough terrain or sand?		
Can travel >=25 mph, or N/A to SCAR- like vehicle?		
Designed primarily for operation over sand dunes?		
Internal combustion engine > 1.0L?		
Applicant Notes		
	Model #2	
Final Assembly Manufacturer Name	Harley-Davidson	
Manufacturer Model Name	FLHTK	
Commercial / Advertised Model Name	ULTRA LIMITED	
Engine Code		
Vehicle Category	Class III Highway Motorcycle With Displacement of 280cc and Over	
Evaporative Family (CARB)		
Number of Evaporative Canisters (CARB)		
Bore (mm)	100.0	
Displacement (cc)	1746	
Stroke (mm)	111.1	
Basic Ignition Timing (degrees, BTDC)		
Rated Power (kW) RPM @ Rated Power		
Rated Torque (nt-m)		
RPM @ Rated Torque		
N/V Ratio		
Curb Mass (kg)		
Equivalent Inertial Mass (kg)		
Transmission (e.g. M5, A3, etc.)		
Vehicle Emission Compliance Information (VECI) Label Type		
Fuel System	Single Fuel System	
Operating Fuel		
Emission Control System (model / rating specific)	ECS 1	
Projected Sales (CBI) - CA Only		
Projected Sales (CBI) - US Total (includes CA Sales)		
Projected Sales (CBI) - US (49-States)		
Permeation Family Name		
	HHDXPMETAL03	
CARB-	Only ATV Specification (Category ATV.A)	

50" or Less in Width	51
4 or More Low Pressure Tires'	
Seat Straddled by Operator	
Without Passenger Seating	
Handlebar	
Manufacturer Previously Exempted	
Internal Combustion Engine	
4 or more wheels?	<u> </u>
Bench or bucket seating for 2 or more	
persons	
Steering Wheel?	
Rear Payload Capacity >= 350lbs., o seating for 6 or more passengers?	
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	
Max power <= 30 kW?	
Can Travel >= 25 mph?	
4 wheels?	
Bench or bucket seating for 1 or more persons?	
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?	
Designed for operation over rough terrain or sand?	
Can travel >=25 mph, or N/A to SCAR- like vehicle?	
Designed primarily for operation over sand dunes?	
Internal combustion engine > 1.0L?	
Applicant Notes	
	Model #3
Final Assembly Manufacturer Name	
Manufacturer Model Name	
Commercial / Advertised Model Name	
Engine Code	
Evaporative Family (CARB)	Class III Highway Motorcycle With Displacement of 280cc and Over
Number of Evaporative Canisters (CARB)	
Bore (mm)	<u></u>
Displacement (cc)	
Stroke (mm)	
Basic Ignition Timing (degrees, BTDC)	15
Rated Power (kW)	
RPM @ Rated Power	5020
Rated Torque (nt-m)	154
RPM @ Rated Torque	3250
N/V Ratio	24
Curb Mass (kg)	411

•	S Communital Dusmess Information
Equivalent Inertial Mass (kg)	· · · · · · · · · · · · · · · · · · ·
Transmission (e.g. M5, A3, etc.)	·
Information (VECI) Label Type	
	Single Fuel System
Operating Fuel	
Emission Control System (model / rating specific)	ECS 1
Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)	
Projected Sales (CBI) - US (49-States)	
Permeation Family Name	
	HHDXPMETAL03
	Only 17740
50" or Less in Width?	Only ATV Specification (Category ATV.A)
4 or More Low Pressure Tires?	
Seat Straddled by Operator?	
Without Passenger Seating?	
Handlebar?	
Manufacturer Previously Exempted?	
Internal Combustion Engine?	
4 or more wheels?	
Bench or bucket seating for 2 or more	
persons?	
Steering Wheel?	
Rear Payload Capacity >= 350lbs., or seating for 6 or more passengers?	
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	
Max power <= 30 kW?	
Can Travel >= 25 mph?	
4 wheels?	
Bench or bucket seating for 1 or more persons?	
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?	
Designed for operation over rough terrain or sand?	
Can travel >=25 mph, or N/A to SCAR- like vehicle?	
Designed primarily for operation over	
sand dunes?	
Internal combustion engine > 1.0L?	
Applicant Notes	
Pi-la-mit as a second	Model #4
Final Assembly Manufacturer Name	
Manufacturer Model Name	<u> </u>
Commercial / Advertised Model Name	ELECTRA GLIDE ULTRA LIMITED LOW
l l	

W 11 1 6 4	
Vehicle Category	Class III Highway Motorcycle With Displacement of 280cc and Over
Evaporative Family (CARB)	HHDXU0025ACA
Number of Evaporative Canisters (CARB	
Bore (mm)	100.0
Displacement (cc	1746
Stroke (mm)	111.1
Basic Ignition Timing (degrees BTDC	
Rated Power (kW)	
RPM @ Rated Power	5020
Rated Torque (nt-m)	154
RPM @ Rated Torque	
N/V Ratio	
Curb Mass (kg)	
Equivalent Inertial Mass (kg)	
Transmission (e.g. M5, A3, etc.)	
Vehicle Emission Compliance Information (VECI) Label Type	
	Single Fuel System
Operating Fuel	
Emission Control System (model / rating specific)	
Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total (includes CA Sales)	
Projected Sales (CBI) - US (49-States)	
Permeation Family Name	HHDXPMETAL03
CARB-	Only ATV Specification (Category ATV.A)
50" or Less in Width?	
4 or More Low Pressure Tires?	
Seat Straddled by Operator?	
Without Passenger Seating?	
Handlebar?	
Manufacturer Previously Exempted?	
Internal Combustion Engine?	
4 or more wheels?	
Bench or bucket seating for 2 or more	
persons?	
Steering Wheel?	
Rear Payload Capacity >= 350lbs., or seating for 6 or more passengers?	
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	
Max power <= 30 kW?	
Can Travel >= 25 mph?	
4 wheels?	

Bench or bucket seating for 1 or more		
persons?		
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?		
Designed for operation over rough terrain or sand?		
Can travel >=25 mph, or N/A to SCAR- like vehicle?		
Designed primarily for operation over sand dunes?		
Internal combustion engine > 1.0L?		
Applicant Notes		
Model #5		
Final Assembly Manufacturer Name Harley-Davidson		
Manufacturer Model Name		
Commercial / Advertised Model Name	CVO STREET GLIDE	
Engine Code		
Vehicle Category	Class III Highway Motorcycle With Displacement of 280cc and Over	
Evaporative Family (CARB)		
Number of Evaporative Canisters (CARB)		
Bore (mm)	102.0	
Displacement (cc)	1868	
Stroke (mm)	114.3	
Basic Ignition Timing (degrees, BTDC)	15	
Rated Power (kW) RPM @ Rated Power		
Rated Torque (nt-m)		
RPM @ Rated Torque		
N/V Ratio		
Curb Mass (kg)	<u></u>	
Equivalent Inertial Mass (kg)		
Transmission (e.g. M5, A3, etc.)		
Vehicle Emission Compliance Information (VECI) Label Type		
Fuel System	Single Fuel System	
Operating Fuel		
Emission Control System (model / rating specific)	ECS 1	
Projected Sales (CBI) - CA Only		
Projected Sales (CBI) - US Total (includes CA Sales)		
Projected Sales (CBI) - US (49-States)		
Permeation Family Name	HHDXPMETAL03	
CARB-Only ATV Specification (Category ATV.A)		
50" or Less in Width?		
4 or More Low Pressure Tires?		
Seat Straddled by Operator?		

	s Communitar Dusiness Information
Without Passenger Seating	
Handlebar	
Manufacturer Previously Exempted?	
Internal Combustion Engine?	<u> </u>
4 or more wheels?	
Bench or bucket seating for 2 or more	
persons?	
Steering Wheel? Rear Payload Capacity >= 350lbs., or	
seating for 6 or more passengers?	
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	
Max power <= 30 kW?	
Can Travel >= 25 mph?	
4 wheels?	
Bench or bucket seating for 1 or more	
persons?	
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?	
Designed for operation over rough terrain or sand?	
Can travel >=25 mph, or N/A to SCAR- like vehicle?	
Designed primarily for operation over sand dunes?	
Internal combustion engine > 1.0L?	<u></u>
Applicant Notes	
	Model #6
Final Assembly Manufacturer Name	
Manufacturer Model Name	
Commercial / Advertised Model Name	
Engine Code	
	Class III Highway Motorcycle With Displacement of 280cc and Over
Evaporative Family (CARB)	
Number of Evaporative Canisters	
(CARB)	400.0
Bore (mm)	
Displacement (cc)	
Stroke (mm)	
Basic Ignition Timing (degrees, BTDC)	
Rated Power (kW)	
RPM @ Rated Power	
Rated Torque (nt-m)	
RPM @ Rated Torque	
N/V Ratio	
Curb Mass (kg)	
Equivalent Inertial Mass (kg)	
Transmission (e.g. M5, A3, etc.)	
	California and 49-state labels

Contains	S Confidential Business Information
Vehicle Emission Compliance Information (VECI) Label Type	
Fuel System	Single Fuel System
Operating Fuel	Gasoline
Emission Control System (model /	ECS 1
rating specific)	
Projected Sales (CBI) - CA Only	
Projected Sales (CBI) - US Total	
(includes CA Sales) Projected Sales (CBI) - US (49-States)	
Permeation Family Name	HHDXPMETAL03
CARB-	Only ATV Specification (Category ATV.A)
50" or Less in Width?	,
4 or More Low Pressure Tires?	
Seat Straddled by Operator?	
Without Passenger Seating?	
Handlebar?	
Manufacturer Previously Exempted?	
Internal Combustion Engine?	
4 or more wheels?	
Bench or bucket seating for 2 or more	
persons?	
Steering Wheel?	
Rear Payload Capacity >= 350lbs., or	
seating for 6 or more passengers?	
Designed for operation over rough terrain?	
Internal combustion engine <= 1.0L?	
Max power <= 30 kW?	
Can Travel >= 25 mph?	
4 wheels?	· · · · · · · · · · · · · · · · · · ·
Bench or bucket seating for 1 or more	
persons?	
Rear Payload Capacity <= 600 lbs., or N/A to SCAR-like vehicle?	
Designed for operation over rough terrain or sand?	
Can travel >=25 mph, or N/A to SCAR-like vehicle?	
Designed primarily for operation over	
sand dunes?	
Internal combustion engine > 1.0L?	
Applicant Notes	
Applicant Notes	